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POLYOLEFINS DIVISION • PLASTICS DEPARTMENT • E. I. DU PONT DE NEMOURS & CO. (INC.) • WILMINGTON, DELAWARE 19898

SURLYN* A/FOIL STRUCTURES IN COMMERCIAL APPLICATIONS

MOISTURE BARRIER

The following laboratory test data verify the barrier performance of the SURLYN A ionomer/foil structures in commercial applications.

STRUCTURE	Barrier layer for 50 lb. bag for ZYTEL® nylon	Similar PE "barrier" layer	Standard Ionomer Food Pouch	Standard PE Food Pouch
Heat Seal Coating	2 mil SURLYN A	2 mil PE	1 mil SURLYN A	1 mil PE
Foil Barrier	0.5 mil foil	0.5 mil foil	0.3 mil foil	0.3 mil foil
Laminating Resin	1 mil PE	1 mil PE	0.5 mil PE or SURLYN A	0.5 mil PE
Paper	40 lb nat. Kraft	40 lb nat. Kraft	30 lb paper	30 lb paper
<u>PINHOLES/SQUARE FOOT</u>				
Before Commercial Shipment	0	0	0	0
Before Commercial Shipment <u>and</u> after Gelbo Flex Test	0	32	2-12	30-144
After Commercial Shipment	0	Too high to	†	†
After Commercial Shipment <u>and</u> after Gelbo Flex Test	0	Package nylon or Ionomer Resins	†	†
gm H ₂ O				
MVTR — Square Meter — day				
Before Commercial Shipment	0	0	0	0
Before Commercial Shipment <u>and</u> after Gelbo Flex Test			1.5	17
After Commercial Shipment	1.5	Too high to	†	†
After Commercial Shipment <u>and</u> after Gelbo Flex Test	3	Package nylon or Ionomer Resins	†	†

†NOTE: Food Pouch Packages are too small in Surface Area to Gelbo Test

*SURLYN is Du Pont's registered trademark for its series of ionomer resins

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